

What is claimed is:

1. A drive apparatus of a trunk lid lock for a motor vehicle, comprising:

a striker provided in one of a trunk lid and a peripheral edge portion of a trunk opening;

5 a latch provided in the other of the trunk lid and the peripheral edge portion of the trunk opening; and

a drive mechanism having a lock canceling member,

wherein when the latch is engaged with the striker, the drive mechanism is operated so as to bring in a second member including the latch via a first member including the striker moving to a bring-in position from a waiting position, thereby closing the trunk lid,

wherein the lock canceling member can move to a restricting position at which the latch is under a restricting state that the latch can not be taken out from the striker, and an restriction canceling position at which the latch is under a restriction canceling state that the latch can be taken out from the striker,

wherein the drive mechanism drives the lock canceling member from the restricting position to the restriction canceling position at a time that the first member is returned to the waiting position from the bring-in position,

and wherein during a period that the first member is returned to the waiting position from the bring-in position, the lock canceling member is restricted to the restriction canceling position, and after returning the first member to the waiting position, the lock canceling member can be moved from the restriction canceling position to the restricting position.

2. A drive apparatus of a trunk lid lock for a motor vehicle according to claim 1,

wherein the drive mechanism further comprising:

an output member,

wherein the output member drives the lock canceling member from the restricting position to the restriction canceling position at a time that the first member is returned to the waiting position from the bring-in position,

and wherein during a period that the first member is returned to the waiting position from the bring-in position, the lock canceling member is restricted at the

restriction canceling position, and after returning the first member to the waiting position, the lock canceling member can be moved from the restriction canceling position to the restricting position.

- 5     3.     A drive apparatus of a trunk lid lock for a motor vehicle according to claim 2,  
          wherein the lock canceling member comprising:  
          a first cam;  
          a second cam; and  
          a third cam,  
10         wherein the output member is relatively brought into slidable contact with the  
          first cam at a time that the first member is returned to the waiting position from the  
          bring-in position, whereby the lock canceling member is moved from the restricting  
          position to the restriction canceling position,  
          wherein during a period that the first member is returned to the waiting position  
15         from the bring-in position, the output member is relatively brought into slidable contact  
          with the second cam, whereby the lock canceling member is restricted at the restriction  
          canceling position,  
          and wherein after returning the first member to the waiting position, the output  
20         member is relatively brought into slidable contact with the third cam, whereby the lock  
          canceling member can be moved from the restriction canceling position to the restricting  
          position.

4.     A drive apparatus of a trunk lid lock for a motor vehicle according to claim 1,  
          wherein the second member is provided with a locking plate which can move  
25         to a restriction canceling position for making the latch in a restriction canceling state.

5.     A drive apparatus of a trunk lid lock for a motor vehicle according to claim 2,  
          wherein the output member comprising:  
          a cam follower bringing in the second member via the first member, the cam  
30         follower being relatively brought into slidable contact with a cam groove formed in the  
          first member,  
          wherein the cam follower is relatively brought into slidable contact with the

first cam, the second cam and the third cam in this order.

6. A drive apparatus of a trunk lid lock for a motor vehicle according to claim 5,  
wherein the cam follower moves along a circumference,

5 wherein the second cam is formed along the circumference at a time that the  
lock canceling member is at the restriction canceling position,  
and wherein the first cam and the third cam are respectively connected to both  
sides of the second cam, and are formed so as to gradually move close to or apart from a  
center of the circumference respectively.

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7. A drive apparatus of a trunk lid lock for a motor vehicle according to claim 1,  
wherein the lock canceling member is urged from the restriction canceling  
position to the restricting position by a coil spring.